SEQUENCE LISTING

(1) GENERAL INFORMATION

- (i) APPLICANT: Wiley, Steven R.
 - (ii) TITLE OF THE INVENTION: MEMBER OF THE TNF FAMILY USEFUL FOR TREATMENT AND DIAGNOSIS OF DISEASE
 - (iii) NUMBER OF SEQUENCES: 11
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Abbott Laboratories, D377/AP6D
 - (B) STREET: 100 Abbott Park Road
 - (C) CITY: Abbott Park
 - (D) STATE: IL
 - (E) COUNTRY: USA
 - (F) ZIP: 60064
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: FastSEO Version 2.0
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/798692
 - (B) FILING DATE: 12-FEB-1997
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Becker, Cheryl L.
 - (B) REGISTRATION NUMBER: 35,441
 - (C) REFERENCE/DOCKET NUMBER: 6048.US.P1
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 847-935-1729
 - (B) TELEFAX: 847-938-2623
 - (C) TELEX:
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1236 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

(, 2220-1-10-,		. DEQ ID NO	• - •
ATGGCCGCCC CACCGCCCTG	GTCGGAGCCA 60	GAAGCGGAGG	GGGCGCCGGG	GGGAGCCGGG
CTGGTCCCGC CCTGCTGGCC	TCGCGCTGGG 120	CCTGGGCCTG	GCGCTGGCCT	GCCTCGGCCT
GTGGTCAGTT GGAGGAGCTG	TGGGGAGCCG 180	GGCATCGCTG	TCCGCCCAGG	AGCCTGCCCA
GTGGCAGAGG AAGCCAGGAT	AGGACCAGGA 240 °	CCCGTCGGAA	CTGAATCCCC	AGACAGAAGA
CCTGCGCCTT AGGCCGGAAA	TCCTGAACCG 300	ACTAGTTCGG	CCTCGAAGAA	GTGCACCTAA
ACACGGGCTC TGGACAGGAC	GAAGAGCGAT 360	CGCAGCCCAT	TATGAAGTTC	ATCCACGACC
GGAGCGCAGG AATCAACAGC	CAGGTGTGGA 420	CGGGACAGTG	AGTGGCTGGG	AGGAAGCCAG
TCCAGCCCTC GGCTGGGCTC	TGCGCTACAA 480	CCGCCAGATC	GGGGAGTTTA	TAGTCACCCG
TACTACCTGT GAAGCTGGAC	ACTGTCAGGT 540	GCACTTTGAT	GAGGGGAAGG	CTGTCTACCT
TTGCTGGTGG CACTGCGGCG	ATGGTGTGCT 600	GGCCCTGCGC	TGCCTGGAGG	AATTCTCAGC
AGTTCCCTCG CCTGCGGCCA	GGCCCCAGCT 660	CCGCCTCTGC	CAGGTGTCTG	GGCTGTTGGC
GGGTCCTCCC CCCCTTCCTC	TGCGGATCCG 720	CACCCTCCCC	TGGGCCCATC	TCAAGGCTGC
ACCTACTTCG GTCGTCCCAG	GACTCTTCCA 780	GGTTCACTGA	GGGGCCCTGG	TCTCCCGCA
GCTGCCGGCT ACCCTCAGCC	CCCCTCGACA 840	GCTCTCTGGG	CACCCGGTCC	CCTCTGCCCC
GCTCTTTGCT CACGTGTTTT	CCAGACCTGC 900	CCCTCCCTCT	AGAGGCTGCC	TGGGCCTGTT
CCATCCCACA CGCCCACTCT	TAAATACAGT 960	ATTCCCACTC	TTATCTTACA	ACAACCCCAC
CCACCTCACT CGACTCCCCC	AGCTCCCAA 1020	TCCCTGACCC	TTTGAGGCCC	CCAGTGATCT
CTGGCCACAG ATGGGTCCAG	ACCCCCAGGG 1080	CATTGTGTTC	ACTGTACTCT	GTGGGCAAGG

AAGACCCCAC TTCAGGCACT AAGAGGGGCT GGACCTGGCG GCAGGAAGCC AAAGAGACTG 1140

GGCCTAGGCC AGGAGTTCCC AAATGTGAGG GGCGAGAAAC AAGACAAGCT CCTCCCTTGA 1200

GAATTCCCTG TGGATTTTTA AAACAGATAT TATTTT 1236

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 249 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Ala Ala Arg Arg Ser Gln Lys Arg Arg Gly Arg Arg Gly Glu Pro 1 5 Gly Thr Ala Leu Leu Val Pro Leu Ala Leu Gly Leu Gly Leu Ala 20 25 Ala Cys Leu Gly Leu Leu Ala Val Val Ser Leu Gly Ser Arg 40 Ser Leu Ser Ala Gln Glu Pro Ala Gln Glu Glu Leu Val Ala Glu Glu 50 55 Asp Gln Asp Pro Ser Glu Leu Asn Pro Gln Thr Glu Glu Ser Gln 65 70 75 80 Pro Ala Pro Phe Leu Asn Arg Leu Val Arg Pro Arg Arg Ser Ala 85 90 95 Lys Gly Arg Lys Thr Arg Ala Arg Arg Ala Ile Ala Ala His Tyr 105 Val His Pro Arg Pro Gly Gln Asp Gly Ala Gln Ala Gly Val Asp Gly 115 120 125 Thr Val Ser Gly Trp Glu Glu Ala Arg Ile Asn Ser Ser Pro 135 140 Arg Tyr Asn Arg Gln Ile Gly Glu Phe Ile Val Thr Arg Ala Gly 145 150 155 160

Tyr Tyr Leu Tyr Cys Gln Val His Phe Asp Glu Gly Lys Ala Val 165 170 175 Leu Lys Leu Asp Leu Leu Val Asp Gly Val Leu Ala Leu Arg Cys 180 185 Glu Glu Phe Ser Ala Thr Ala Ala Ser Ser Leu Gly Pro Gln Leu 195 200 205 Leu Cys Gln Val Ser Gly Leu Leu Ala Leu Arg Pro Gly Ser Ser 215 220 Arg Ile Arg Thr Leu Pro Trp Ala His Leu Lys Ala Ala Pro Phe 225 230 235 240 Thr Tyr Phe Gly Leu Phe Gln Val His 245

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 189 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Met Val Met Met Leu Arg Thr Trp Arg Leu Leu Pro Met Val Leu Leu 1 10 Ala Ala Tyr Cys Tyr Cys Ser Leu Ala Ala Pro Gly Ser Asp Tyr 20 25 Asp Asp Asp Lys Gly Arg Lys Thr Arg Ala Arg Arg Gly Ile Ala Ala His Tyr Glu Val His Pro Arg Pro Gly Gln Asp Gly Ala Gln Ala 50 55 Gly Val Asp Gly Thr Val Ser Gly Trp Glu Glu Ala Arg Ile Asn Ser 70 65 75 80 Ser Ser Pro Leu Arg Tyr Asn Arg Gln Ile Gly Glu Phe Ile Val 90 Arg Ala Gly Leu Tyr Tyr Leu Tyr Cys Gln Val His Phe Asp Glu Gly 105 Lys Ala Val Tyr Leu Lys Leu Asp Leu Leu Val Asp Gly Val Leu Ala

Leu Glv	Arg	115 Cys	Leu	Glu ·	Glu	Phe	120 Ser	Ala	Thr	Ala	Ala	125 Ser	Ser	Leu
Pro	130 Gln	Leu	Arg	Leu	Cys	135 Gln	Val	Ser	Gly	Leu	140 Leu	Ala	Leu	Arg
145 160					150					155				
Gly Ala	Ser	Ser	Leu	Arg	Ile	Arg	Thr	Leu	Pro	Trp	Ala	His	Leu	Lys
Ala	Pro	Phe	Leu 180	165 Thr	Tyr	Phe	Gly	Leu 185	170 Phe	Gln	Val	His		175

- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: Protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala

1 5 10 15

Tyr Ser Arg Gly Val Phe Arg Arg
20

- (2) INFORMATION FOR SEQ ID NO:5:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Asp Tyr Lys Asp Asp Asp Lys 1 5

l

(2) INFORMATION FOR SEO ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 146 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Arg Arg Ala Ile Ala Ala His Tyr Glu Val His Pro Arg Pro Gly Gln 1 Asp Gly Ala Gln Ala Gly Val Asp Gly Thr Val Ser Gly Trp Glu 20 25 Ala Arg Ile Asn Ser Ser Ser Pro Leu Arg Tyr Asn Arg Gln Ile 40 Glu Phe Ile Val Thr Arg Ala Gly Leu Tyr Tyr Leu Tyr Cys Gln Val 50 55 His Phe Asp Glu Gly Lys Ala Val Tyr Leu Lys Leu Asp Leu Leu 70 65 75 80 Asp Gly Val Leu Ala Leu Arg Cys Leu Glu Glu Phe Ser Ala Thr 85 90 95 Ala Ser Ser Leu Gly Pro Gln Leu Arg Leu Cys Gln Val Ser Gly 105 Leu Ala Leu Arg Pro Gly Ser Ser Leu Arg Ile Arg Thr Leu Pro 115 120 125 Ala His Leu Lys Ala Ala Pro Phe Leu Thr Tyr Phe Gly Leu Phe

(2) INFORMATION FOR SEQ ID NO:7:

135

140

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 177 amino acids
 - (B) TYPE: amino acid

130

Val His 145

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Glu Lys Gln Gln Asn Ile Ser Pro Leu Val Arg Glu Arg Gly Pro 5 10 15 1 Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile 40 Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr Ile 70 75 80 Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys Glu Asn Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser 100 105 Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp 115 120 125 Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe 135 Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu His 145 150 155 160 Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Ile Val 165 170 175 Gly

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 183 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEO ID NO:8:

Glu Lys Gln Leu Ser Thr Pro Pro Leu Pro Arg Gly Gly Arg Pro Gln

1 5 10 15

Lys Val Ala Ala His Ile Thr Gly Ile Thr Arg Arg Ser Asn Ser Ala

. 20 25 30

Leu Ile Pro Ile Ser Lys Asp Gly Lys Thr Leu Gly Gln Lys Ile 35 40 45 Ser Trp Glu Ser Ser Arg Lys Gly His Ser Phe Leu Asn His Val 55 Phe Arg Asn Gly Glu Leu Val Ile Glu Gln Glu Gly Leu Tyr Tyr Ile 65 70 80 Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Ala Glu Asp Ala Ser 90 Met Val Ser Lys Asp Lys Val Arg Thr Lys Gln Leu Val Gln Tyr 100 105 110 Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Val Leu Met Lys Ser 120 Arg Asn Ser Cys Trp Ser Arg Asp Ala Glu Tyr Gly Leu Tyr Ser 130 135 140 Tyr Gln Gly Gly Leu Phe Glu Leu Lys Lys Asn Asp Arg Ile Phe 145 150 155 160 Ser Val Thr Asn Glu His Leu Met Asp Leu Asp Gln Glu Ala Ser 170 175 165 Phe Gly Ala Phe Ile Ile Asn 180

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 147 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala Val Ser Tyr Gln Thr 65 70 75 80 Lys Val Asn Leu Leu Ser Ala Ile Lys Ser Pro Cys Gln Arg Glu 85 90 Pro Glu Gly Ala Glu Ala Lys Pro Trp Glu Pro Ile Tyr Leu Gly 100 105 Val Phe Gln Leu Glu Lys Gly Asp Arg Leu Ser Ala Glu Ile Asn 120 Pro Asp Tyr Leu Asp Phe Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile 130 135 140 Ile Ala Ile 145

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 145 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

115

- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Leu Lys Pro Ala Ala His Leu Ile Gly Asp Pro Ser Lys Gln Asn Ser 10 Leu Leu Trp Arg Ala Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly 25 Ser Leu Ser Asn Asn Ser Leu Leu Val Pro Thr Ser Gly Ile Tyr 35 40 45 Val Tyr Ser Gln Val Val Phe Ser Gly Lys Ala Tyr Ser Pro Lys Ala 55 Thr Ser Ser Pro Leu Tyr Leu Ala His Glu Val Gln Leu Phe Ser Ser 65 70 Gln Tyr Pro Phe His Val Pro Leu Leu Ser Ser Gln Lys Met Val 90 Pro Gly Leu Gln Glu Pro Trp Leu His Ser Met Tyr His Gly Ser 100 105 110 Gly Gln Leu Thr Gln Gly Asp Gln Leu Ser Thr His Thr Asp Gly

120

125

Pro His Leu Val Leu Ser Pro Ser Thr Val Phe Phe Gly Ala Phe Ala

130
135
140
Leu

145

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 165 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

165

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Gln Gly Met Phe Ala Gln Leu Val Ala Gln Asn Val Leu Leu Ile Asp 10 Gly Pro Leu Ser Trp Tyr Ser Asp Pro Gly Leu Ala Gly Val Ser 25 Thr Gly Gly Leu Ser Tyr Lys Glu Asp Thr Lys Glu Leu Val Val 35 40 45 Lys Ala Gly Val Tyr Tyr Val Phe Phe Gln Leu Glu Leu Arg Arg Val Val Ala Gly Glu Gly Ser Gly Ser Val Ser Leu Ala Leu His Leu Pro 65 70 75 Gln Leu Arg Ser Ala Ala Gly Ala Ala Ile Ala Leu Thr Val Asp 85 90 Pro Pro Ala Ser Ser Glu Ala Arg Asn Ser Ala Phe Gly Phe Gln 100 105 110 Arg Leu Leu His Leu Ser Ala Gly Gln Arg Leu Gly Val His Leu His 115 120 Thr Glu Ala Arg Ala Arg His Ala Trp Gln Leu Thr Gln Gly Ala Thr 130 135 Val Leu Gly Leu Phe Arg Val Thr Pro Glu Leu Pro Ala Gly Leu Pro 145 150 155 160 Ser Pro Arg Ser Glu